

2012 ECONOMIC IMPACT ANALYSIS



**Wright-Patterson
Air Force Base
Ohio**

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PREFACE

Commander's Foreword

Wright-Patterson Air Force Base is the largest base in the Air Force with over 27,500 personnel serving in 116 different mission organizations. In addition to the Air Force, Wright-Patt's mission partners support Combatant Commands (COCOMs), Sister Services, Major Commands (MAJCOMs), and Allies. All Wright-Patt active and reserve military, civilians, and contractors play a significant role in helping support and defend the United States. Locally, as the largest single-site employer in Ohio, Wright-Patt generates tens of thousands direct and indirect jobs throughout Ohio's Miami Valley region.



Whether we are providing vital infrastructure and services to operate the base or training and processing over 1,000 Airmen we annually deploy to all corners of the world, the 88 ABW provides the underlying infrastructure enabling our mission partners' success across Wright-Patt. Our many mission partners such as the Air Force Materiel Command (AFMC) Headquarters, Air Force Life Cycle Management Center (AFLCMC), Air Force Research Laboratory (AFRL), Air Force Institute of Technology (AFIT), National Air and Space Intelligence Center (NASIC), and 445th Airlift Wing (C-17) provide critical advanced research, development, life cycle management, advanced education, intelligence, flying operations, and combat support that allows the Air Force to *fly, fight and win* in the air, space, and cyberspace.

The 88 ABW continually liaises with the surrounding community. The 20-plus cities, towns, and villages in the 16-county Miami Valley region, along with numerous private and public organizations, provide Wright-Patt outstanding community support. Our community partners provide tremendous support in countless ways through various military appreciation events at local universities, sporting events, and arts and culture venues. In turn, Wright-Patterson remains a strong partner with the area, with many of our Airmen providing thousands of volunteer hours to community organizations, and becoming strong ambassadors within the community.

In addition to being good stewards of the community, Wright-Patterson remains an economic engine within the Miami Valley region. In 2012, the installation economic impact was estimated at approximately \$4.4 billion with more than 27,500 direct jobs on or near the installation at any given time. We will continue to be good stewards in the community as we strengthen and build our community relationships for both our Airmen and our Miami Valley family.

CASSIE B. BARLOW, COLONEL, USAF
Commander, 88th Air Base Wing

Wright-Patterson's Heritage

Wright-Patterson AFB near Dayton, Ohio, traces its origin directly from the Wright brothers' pioneering flights in 1904 and 1905 at the Huffman Prairie Flying Field located in the middle of the installation. Its past, present and future are all inextricably linked with the Wright brothers' legacy. Dayton was the Wright brothers' home and Daytonians consider their city the "Birthplace of Aviation". The Wrights' early years, their bicycle shops, their printing business, and their early aviation efforts are evident throughout the greater Dayton area. Just off the end of Wright-Patterson's active runway, a replica of the Wright brothers' 1905 hangar overlooks the Huffman Prairie Flying Field. Here they established their first flying field, developed the first practical airplane, and in their own words, "really learned to fly." The Flying Field has been designated a National Historic Landmark and is part of the Dayton Aviation Heritage National Historical Park.

The installation itself has been a leader in military aviation since World War I. Aviation research and development began to flourish at Wright-Patterson as the U.S. entered World War I. Wilbur Wright Field was established in the summer of 1917 as a pilot training school at the site of Wright-Patterson's present flight line. In the fall of 1917, McCook Field was established as an Air Service engineering center. McCook Field was located near downtown Dayton at what is now the intersection of State Route 4 and Interstate 75. In 1927, a new aerodrome and research complex were constructed on land donated by the citizens of Dayton to replace the overcrowded McCook Field. Named Wright Field in honor of both brothers, it is now part of Wright-Patterson's Area B.

Wright-Patterson's logistics heritage also dates from World War I. The Fairfield Aviation General Supply Depot was established in 1917 adjacent to Wilbur Wright Field. The Fairfield Air Depot, as it became known, was a major Army Air Corps depot through the end of World War II. In 1931, the area encompassing the Fairfield Air Depot, Wilbur Wright Field, and the Huffman Prairie Flying Field, was renamed Patterson Field in honor of Lt. Frank Stuart Patterson who died in 1918 when his DH-4 crashed on the airfield during a flight test.

In 1948, Wright and Patterson Fields merged to create Wright-Patterson AFB. The 88 ABW has been the host organization most of the period since the merger. It has provided base operating support for the installation since 1944.

Wright-Patterson is one of the largest, most diverse, and organizationally complex bases in the Air Force. Its missions range from life cycle and logistics management, to research and development, education, flight operations, intelligence, and an assortment of other defense and non-defense activities. Wright-Patterson is home to HQ AFMC, AFLCMC, AFRL, AFIT, NASIC, the National Museum of the United States Air Force (NMUSAF), the 445 AW, a regional DoD medical center, and numerous other Air Force, DoD, and government agencies. Enabling it all is the 88 ABW, which operates, maintains, and defends the installation.

Today, as in the first century of flight, the nation's aeronautical weapon systems are developed, researched, tested, and life cycle managed at Wright-Patterson AFB. The installation's legendary heritage spurs modern aerospace scientists, engineers, intelligence experts, and life cycle professionals in their quest to keep man flying higher, faster, farther, and safer with increasing capabilities than ever before. The installation also serves as an aerial port of embarkation and plays a continuing role in Overseas Contingency Operations.

The excellent community spirit and cooperation of the installation and its personnel is another hallmark of Wright-Patterson's heritage. Base personnel contribute thousands of volunteer hours to community projects and Science, Technical, Engineer, and Math (STEM) events. They support and offer special events at the NMUSAF, host the Air Force Marathon, conduct education outreach programs, and work with the Dayton Aviation Heritage National Historical Park to enhance the Miami Valley's legacy as the Birthplace of Aviation.

The creativity and professionalism of our Airmen and civilian employees combined with the vitality of the Miami Valley's citizens continue to make Wright-Patterson AFB the birthplace, home, and future of aerospace.



ECONOMIC IMPACT TABLES

Table 1

Personnel by Classification and Housing Location

CLASSIFICATION	LIVING ON BASE	LIVING OFF BASE	TOTAL
1. APPROPRIATED FUND MILITARY			
Active Duty			
Air Force	381	5,177	5,558
Army		35	35
Navy/Marine	7	24	31
Air Force Reserve (AFR)/Air National Guard (ANG)		2,076	2,076
Non-Extended Active Duty AFR/ANG		10	10
Trainees/Cadets (393 NPS 711 HPW Pipeline/2,992 TDY FTEs Students)	199		199
TOTAL:	587	7,322	7,909
2. ACTIVE DUTY MILITARY DEPENDENTS			
Air Force	728	9,888	10,616
Army		67	67
Navy/Marine	13	46	59
Air Force Reserve (AFR)/Air National Guard (ANG)		3,965	3,965
Non-Extended Active Duty AFR/ANG		19	19
TOTAL:	741	13,985	14,726
3. APPROPRIATED FUND CIVILIANS			
General Schedule (GS)			9,578
Federal Wage System (FWS)			551
Defense Commissary Agency (DeCA)			105
Defense Civilian Intelligence Personnel System (DCIPS)			1,392
Other (SES, Scientific and Professional Positions)			1,719
Laboratory Demonstration Project (AFRL)			1,872
Senior Executive Service (SES)/Senior Scientist (ST)			23
GS Physicians and Dentists (GP)			13
Defense Civilian Intelligence (IA)			1
TOTAL:			15,254
4. NON-APPROPRIATED FUND, CONTRACT CIVILIANS AND PRIVATE BUSINESS			
Air Force Civilian Non-appropriated fund employees (NAF)			625
Army & Air Force Exchange Service civilian employees (AAFES)			257
Contract Civilians (not elsewhere included)			3,447
Private Businesses On Base, By Type:			
Branch Banks/Credit Union			18
Office Runway (Cincinnati Association for the Blind)			7
Hope Hotel			50
National Aviation Hall of Fame			4
Other Civilian Vendors			14
TOTAL:			4,422
TOTAL ASSIGNED PERSONNEL:			27,585
TOTAL PERSONNEL INCLUDING DEPENDENTS:			42,311

Table 2
Annual Payroll by Classification and Housing Location

CLASSIFICATION	LIVING ON BASE (\$)	LIVING OFF BASE (\$)	TOTAL (\$)
1. APPROPRIATED FUND MILITARY			
Active Duty			
Air Force	\$ 14,197,169	\$ 384,868,534	\$ 399,065,703
Army		\$ 3,887,441	\$ 3,887,441
Navy/Marine	\$ 826,000	\$ 1,886,754	\$ 2,712,754
Air Force Reserve (AFR)/Air National Guard (ANG)		\$ 35,061,360	\$ 35,061,360
Non-Extended Active Duty AFR/ANG		\$ 206,136	\$ 206,136
Trainees/Cadets (711 HPW Pipeline/TDY Students)	\$ 12,078,120		\$ 12,078,120
TOTAL:	\$ 27,101,289	\$ 425,910,225	\$ 453,011,514

2. APPROPRIATED FUND CIVILIANS			
General Schedule (GS)			\$ 809,414,149
Federal Wage System (FWS)			\$ 44,895,149
Defense Commissary Agency (DeCA)			\$ 5,048,426
Defense Civilian Intelligence Personnel System (DCIPS)			\$ 118,477,082
Other (SES, Scientific and Professional Positions)			\$ 194,534,843
Laboratory Demonstration Project (AFRL)			\$ 264,168,979
Senior Executive Service (SES)/Senior Scientist (ST)			\$ 4,852,971
GS Physicians and Dentists (GP)			\$ 1,486,998
Defense Civilian Intelligence (IA)			\$ 148,689
TOTAL:			\$ 1,443,027,286

3. NON-APPROPRIATED, FUND CONTRACT CIVILIANS AND PRIVATE BUSINESS			
Air Force Civilian Non-appropriated fund employees (NAF)			\$ 15,731,751
Army & Air Force Exchange Service civilian employees (AAFES)			\$ 4,878,601
Contract Civilians (not elsewhere included)			\$ 344,700,000
Private Businesses On Base, By Type:			
Branch Banks/Credit Union			\$ 139,414
Office Runway (Cincinnati Association for the Blind)			\$ 292,476
Hope Hotel			\$ 800,000
National Aviation Hall of Fame			\$ 115,772
Other Civilian Vendors			\$ 605,444
TOTAL:			\$ 367,263,458

TOTAL ANNUAL PAYROLL: \$ 2,263,302,258

Table 3

Expenditures for Construction, Services, and Procurement of Materials, Equipment, and Supplies

CLASSIFICATION	ACTUAL ANNUAL EXPENDITURES
1. CONSTRUCTION	
Military Construction Program (MILCON)	\$ 43,792,222
Non-Appropriated Fund Construction (NAF)	\$ 8,823,910
Military Family Housing (MFH)	\$ 546,400
Military Family Housing Operations and Maintenance (O&M)	\$ 1,170,898
Construction related Operations and Maintenance (O&M)	\$ 86,340,472
TOTAL:	\$ 140,673,902

2. SERVICES	
Operations and Maintenance Service Contracts (O&M)	\$ 69,194,430
Medical Service Contracts	\$ 56,209,269
Non-Appropriated Fund Service Contracts (NAF)	\$ 179,331
Other Service Contracts	\$ 157,172,564
Research, Development, Testing and Evaluation (RDT&E) Service Contracts	\$ 14,279,901
TOTAL:	\$ 297,035,495

3. PROCUREMENT OF MATERIALS, EQUIPMENT, AND SUPPLIES	
Commissary (DeCA)	\$ 55,537
Base Exchange (AAFES)	\$ 456,647
Health (Tri-Care, Government Cost Only)	\$ 41,044,066
Non-Appropriated Fund (NAF)	\$ 5,128,907
Education (Impact Aid and Tuition Assistance)	\$ 4,358,419
TDY (Military and Civilian)	\$ 12,750,794
GPC/Other Materials Equipment & Supplies	\$ 229,280,780
TOTAL:	\$ 293,075,150

TOTAL ANNUAL EXPENDITURES: \$ 730,784,547

Table 4**Estimate of Number and Dollar Value of Indirect Jobs Created**

TYPE OF PERSONNEL	NUMBER OF BASE JOBS	MULTIPLIER	NUMBER OF INDIRECT JOBS
ACTIVE DUTY MILITARY	7,909	0.41	3,243
APPROPRIATED FUND CIVILIANS	15,254	1.57	23,949
OTHER CIVILIANS	4,422	1.57	6,943
TOTAL:	27,585		34,135
ESTIMATED NUMBER OF INDIRECT JOBS CREATED:			34,135
AVERAGE ANNUAL PAY FOR THE LOCAL COMMUNITY:			\$40,435
ESTIMATED ANNUAL DOLLAR VALUE OF JOBS CREATED:			\$1,380,248,725

DATA SOURCES:

Multiplier: LMI Economic Impact Database, Installations and Indirect/Induced Job Multipliers, Feb 95

Avg Annual Pay: Current tables for Average Annual Pay Levels in Metropolitan Areas and Average Annual Pay by city/state are accessible at www.bls.gov.

Table 5**Total Annual Economic Impact Statement**

ANNUAL PAYROLL:	
Military	\$ 453,011,514
Federal Civilian	\$ 1,443,027,286
Other Civilian	\$ 367,263,458
Total	\$ 2,263,302,258
ANNUAL EXPENDITURES:	
	\$ 730,784,547
ESTIMATED ANNUAL DOLLAR VALUE OF JOBS CREATED:	
Estimated Indirect Jobs Created	34,135
Average Annual Pay	\$40,435
Total	\$ 1,380,248,725
TOTAL ECONOMIC IMPACT:	\$ 4,374,335,530

APPENDICES

Analysis Methodology

The objective of this Economic Impact Analysis is to quantify Wright-Patterson AFB's local economic activity within Fiscal Year 2012 (FY12). FY12 covers the time period from October 1, 2011 to September 30, 2012. The local area is defined by the U.S. Office of Management and Budget and is called a Metropolitan Statistical Area (MSA). The MSA for Wright-Patterson AFB consists of the following five surrounding counties: Clark, Greene, Miami, Montgomery, and Preble (Dayton-Springfield MSA). The MSA is illustrated in Figure 1 below.

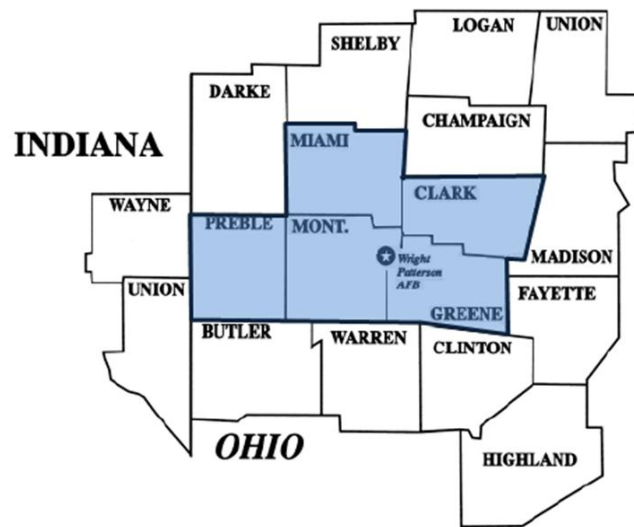


Figure 1: Economic Area for Wright-Patterson AFB

Table 1: Personnel by Classification and Housing Location

The population of active duty Air Force military personnel was derived from an Economic Resource Impact Statement (ERIS) produced from the Defense Joint Military Pay System (DJMS) report furnished by the 88th Comptroller Squadron (CPTS/FMF)/. The population of Army military personnel is derived from inputs provided from AFIT and Defense Courier Service (DCS). The population of Navy military personnel is derived from inputs provided from AFIT, Naval Medical Research Unit (NAMRU), and US Marine Forces Reserves (USMFR). The Air Force Reserve and Air National Guard population was provided by the 445 AW. The Military Dependent population (living on- or offbase) was calculated utilizing the average number of dependents for all grades/ranks from AFI 65-503 *Cost Factors*, Table 29-1, *Dependents Per Military Sponsor*. The Appropriated Fund, Non-Appropriated Fund, Contract Civilian, and Private Business populations were provided by the 88th Force Support Squadron (88 FSS/FSM) and various tenant units/organizations and non-governmental organizations (NGOs).

Table 2: Annual Payroll by Classification and Housing Location

The payroll for active duty Air Force military personnel was derived from the ERIS report furnished by the 88 CPTS/FMF. The Army military payroll was provided by AFIT and DCS. The Navy military payroll provided by AFIT, NAMRU, and USMFR. The Air Force Reserve and Air National Guard payroll was provided by 445 AW. The Appropriated Fund, Non-Appropriated Fund, Contract Civilian, and Private Business payrolls were provided by the 88 FSS/FSM and various tenant units/organizations and NGOs.

Table 3: Expenditures for Construction, Services, and Procurement

All of the Military Construction (MILCON) funded spending was collected from the Civil Engineer Directorate (88 ABW/CEP) and the US Army Corps of Engineers (USACoE). NAF funded construction was provided by 88 FSS/FSR. Other construction expenditures were provided by Air Force Life Cycle Management Center Contracting Directorate (AFLCMC/PK) and USACoE. The amount for O&M Other Service Contracts was provided by AFLCMC/PK, AFRL, and the Air Force Financial Systems Operations (AFFSO). The amount for Non-Appropriated Fund Service Contracts was provided by the 88 FSS/FSR and AFLCMC/PK. The amount for Other Service Contracts was provided by AFLCMC/PK. The amount for Research, Development, Testing and Evaluation (RTD&E) Service Contracts was provided by AFRL. Education spending was a combination of the inputs provided by 88 FSS/FSR and the U.S. Department of Education. Data for the Government Purchase Card (GPC) and other spending came from the AFLCMC/PK, AFRL, and 88th Medical Group (MDG).

Table 4: Estimate of Number and Dollar Value of Indirect Jobs Created

The multipliers in this table were taken from the Economic Impact Database owned by the Logistics Management Institute, which is available through the Secretary of the Air Force Financial Management and Comptroller (SAF/FMC) webpage on the Air Force Portal. The average annual pay was taken from the United States Department of Labor website: <http://www.bls.gov/ro5/qcewoh.htm>. This methodology is required according to Chapter 8 of AFMAN 65-506.

Table 5: Total Annual Economic Impact Estimate

This table is simply a summary of Tables 1 – 4. Wright-Patterson AFB's total estimated economic impact upon the Dayton MSA is \$4,374,335,530.

Summary

This Economic Impact Analysis was prepared by the 88 CPTS/FMA, Wright-Patterson AFB, Ohio. Questions or comments concerning the statistics or data contained in this analysis may be addressed to (937-522-3252), or 88abw.pa@us.af.mil.

Summary of Capital Assets

CAPITAL ASSETS		
(As of: 30 September 2012)		
Building Category		Square Feet
Housing (Includes detached garages, storage buildings, and VAQ/VOQ)		777,163
Community (Includes commissary, BX, and recreation)		2,672,118
Research and Development		5,615,258
Hospital		783,194
All Other Buildings (Includes Operations & Training, Supply, Maintenance & Production, and Administration)		7,283,272
Other Structures and Facilities		119,851
Utilities and Ground Improvement		144
TOTAL:		17,251,000
Dormitory/Temporary Quarters	Number of Units	Bed Capacity
Airman/NCO	6	592
Visiting Officer/Airman Quarters	8	441
Temporary Lodging Facilities	21	132
Compassionate Care Facilities	2	32
TOTAL:	37	1,197
Land		Acres
Fee Owned		7,629
Easements		431
Right of Way		83
Leased		2
TOTAL:		8,145
Runways		Linear Feet
Area A		19,600
Area B (inactive)		7,147
TOTAL:		26,747
Facilities Data		Number of Buildings
Buildings		607
Family Housing		127
TOTAL:		734

Figure 2: Wright-Patterson AFB's Capital Assets

Personnel Distribution

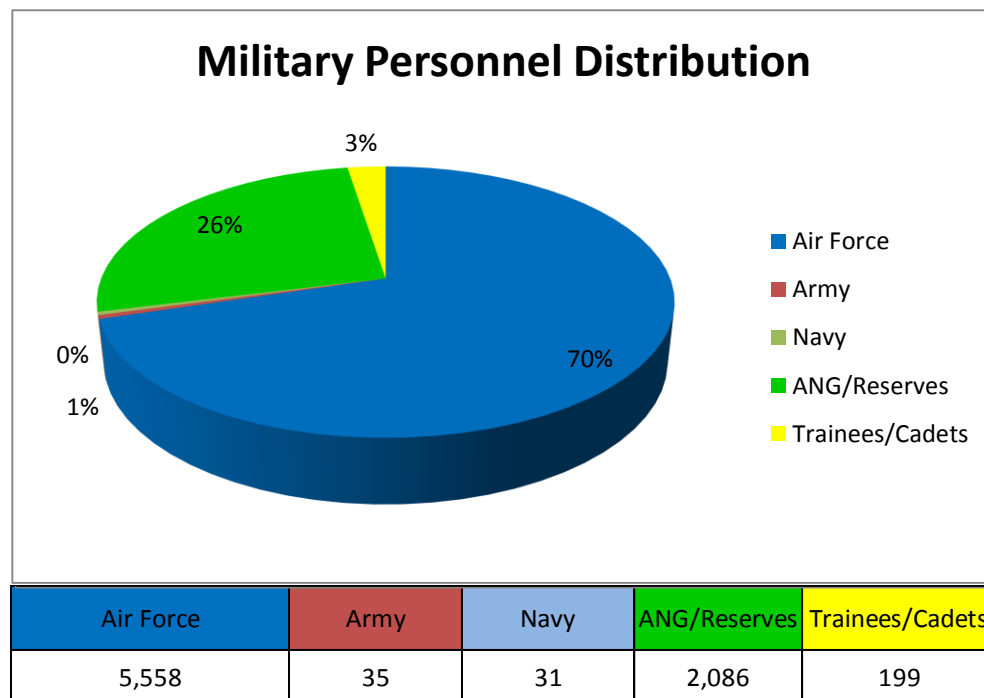


Figure 3: Distribution of Military Personnel by Branch of Service

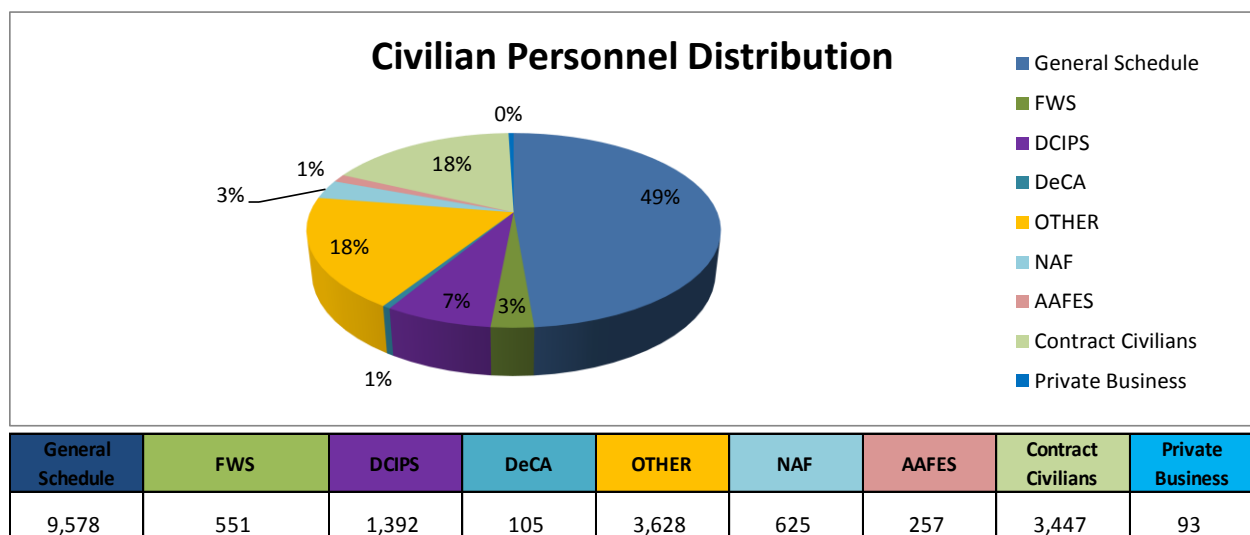


Figure 4: Distribution of Civilians by Personnel System

APF Military & Civilian Payroll and Personnel Assignment Trends

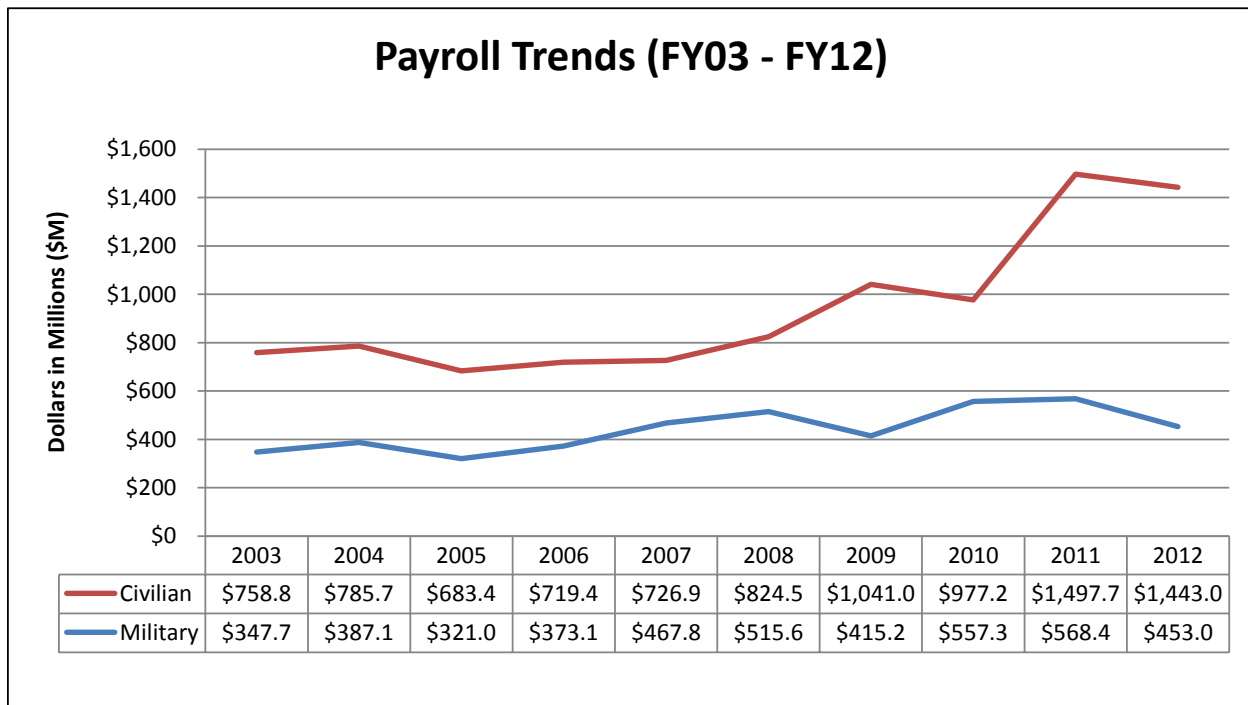


Figure 5: Total Military & Civilian Annual Payroll

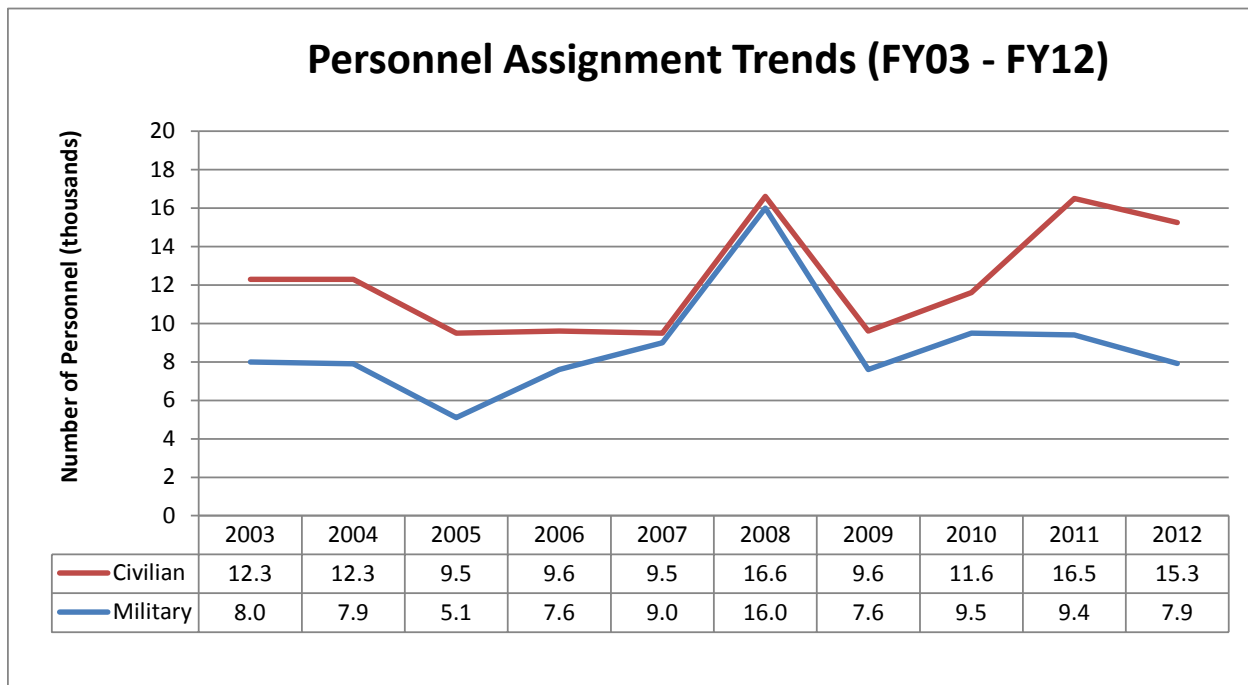


Figure 6: Total Military & Civilian Personnel Assigned

Military Retiree Payments

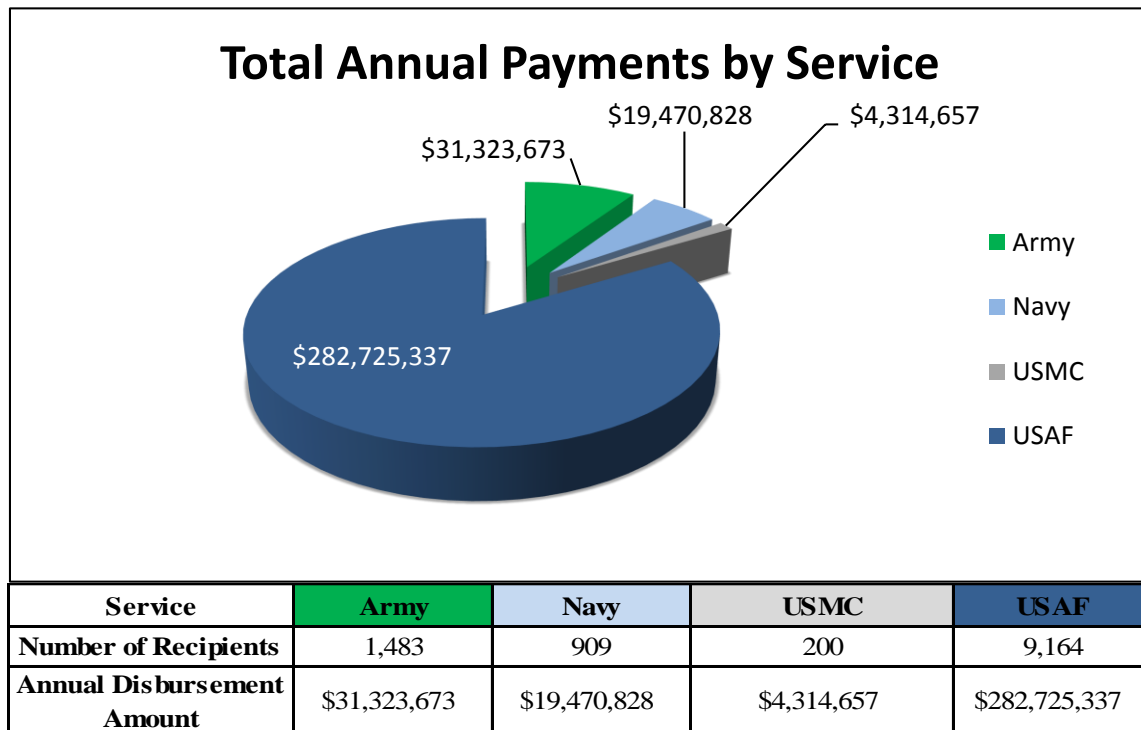


Figure 7: Total Military Retiree Payment by Branch of Service

Combined Federal Campaign Contributions

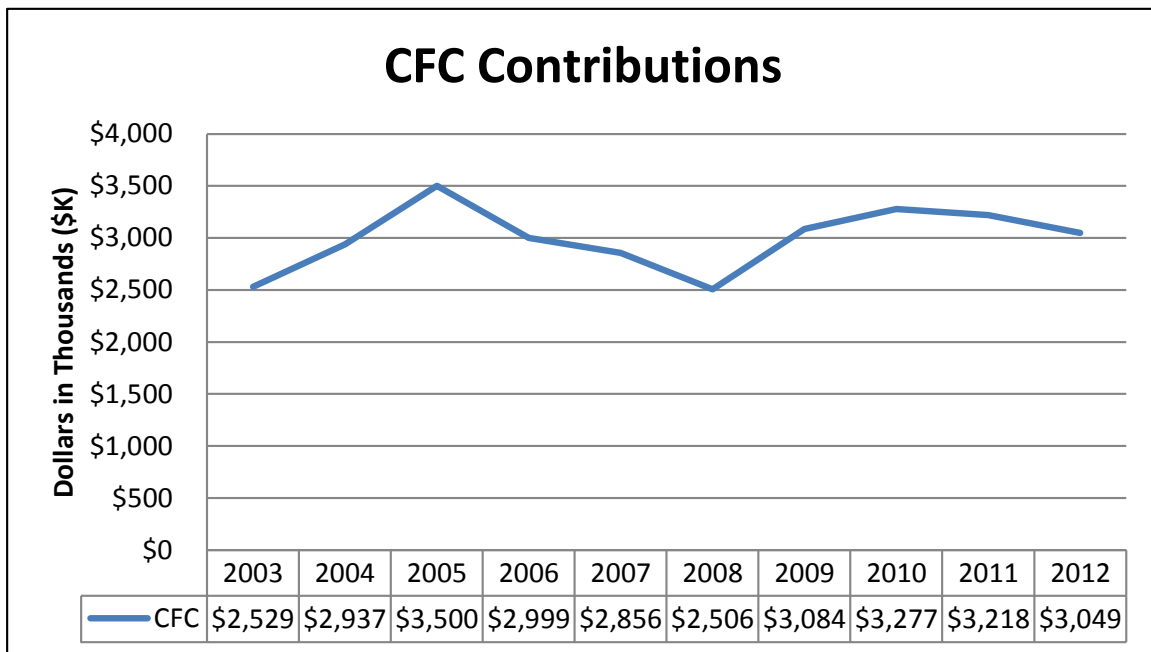


Figure 8: Total CFC Contributions from Wright-Patterson AFB

Summary of Impact Aid Payments

IMPACT AID SUMMARY		
School District	County	Amount
Mad River Local	Montgomery	\$ 596,242
Fairborn City	Greene	\$ 91,777
Beavercreek Local	Greene	\$ 102,966
Huber Heights City	Montgomery	\$ -
Bellbrook-Sugarcreek Local	Greene	\$ 16,048
TOTAL Impact Aid		\$ 807,033

Figure 9: Summary of Dayton, OH Impact Aid Payments

NMUSAF Visitation Trends

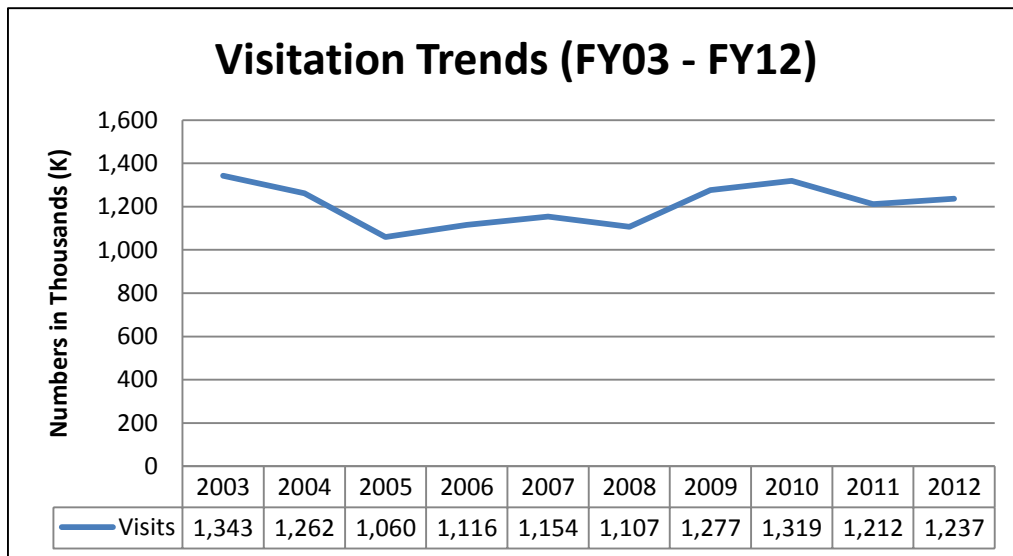


Figure 10: Summary of National Museum of the U.S. Air Force Visitation

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